

002234-113700

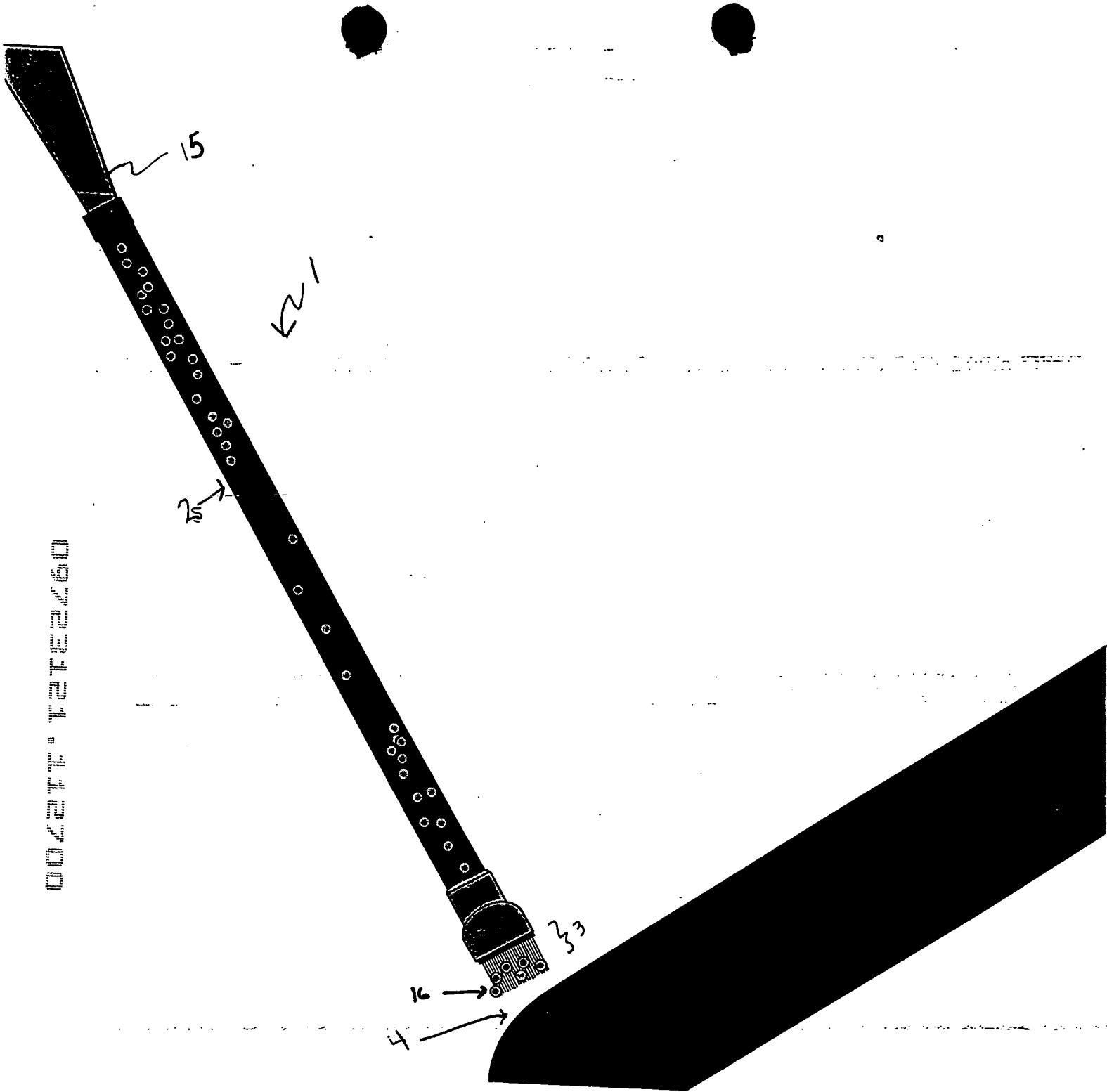


FIG. 1A

09723121.412700

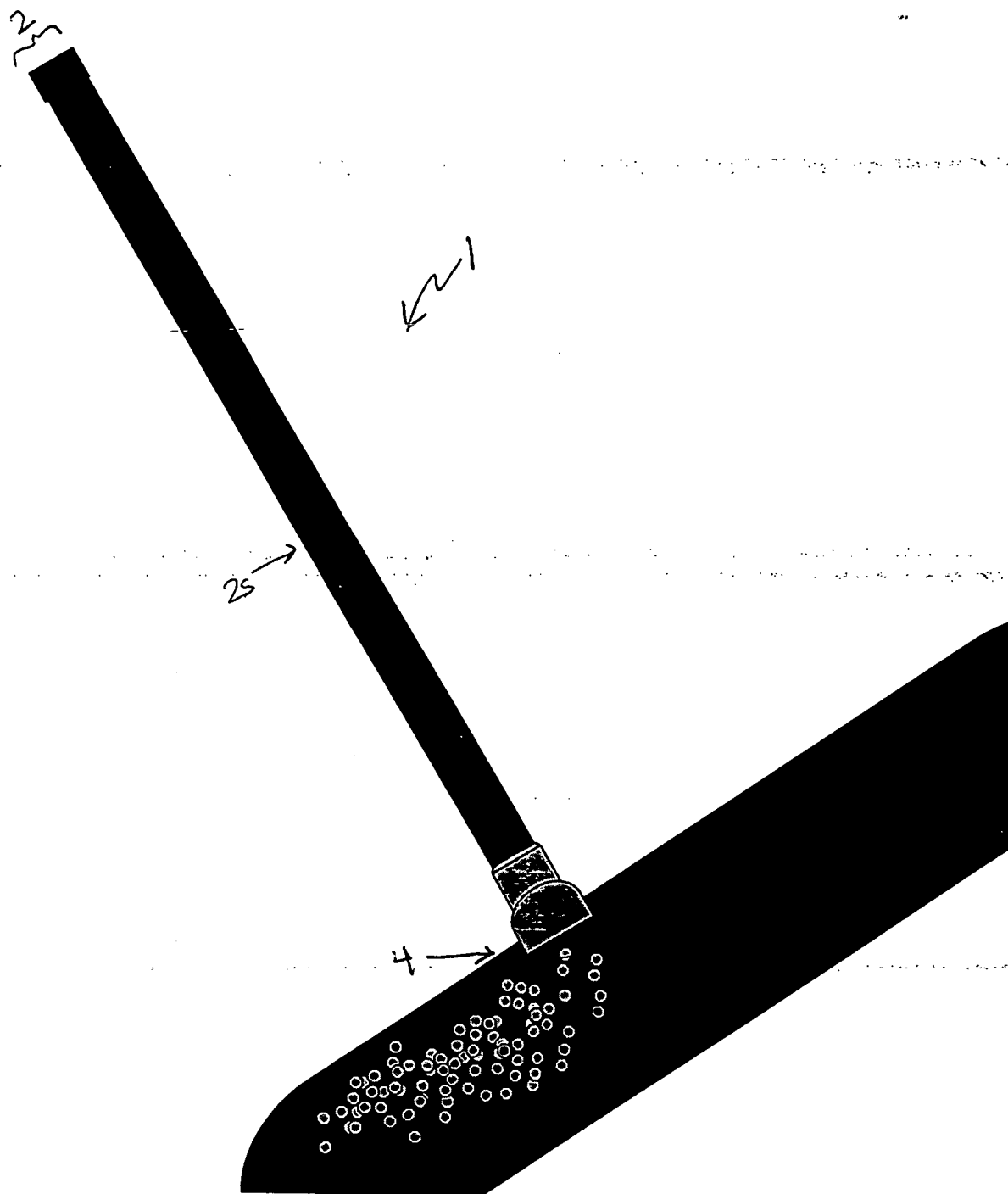


FIG. 1B

GeneBrush

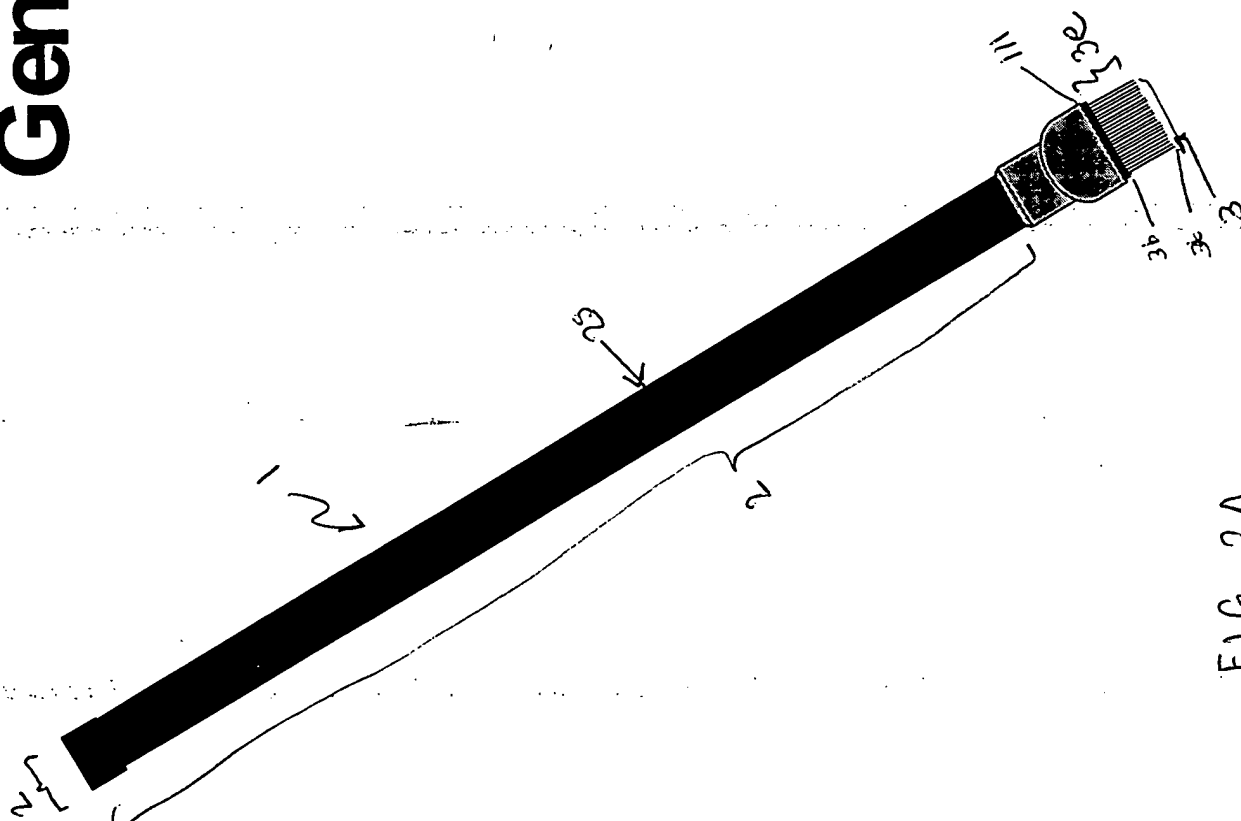


FIG. 2A

GeneBrush

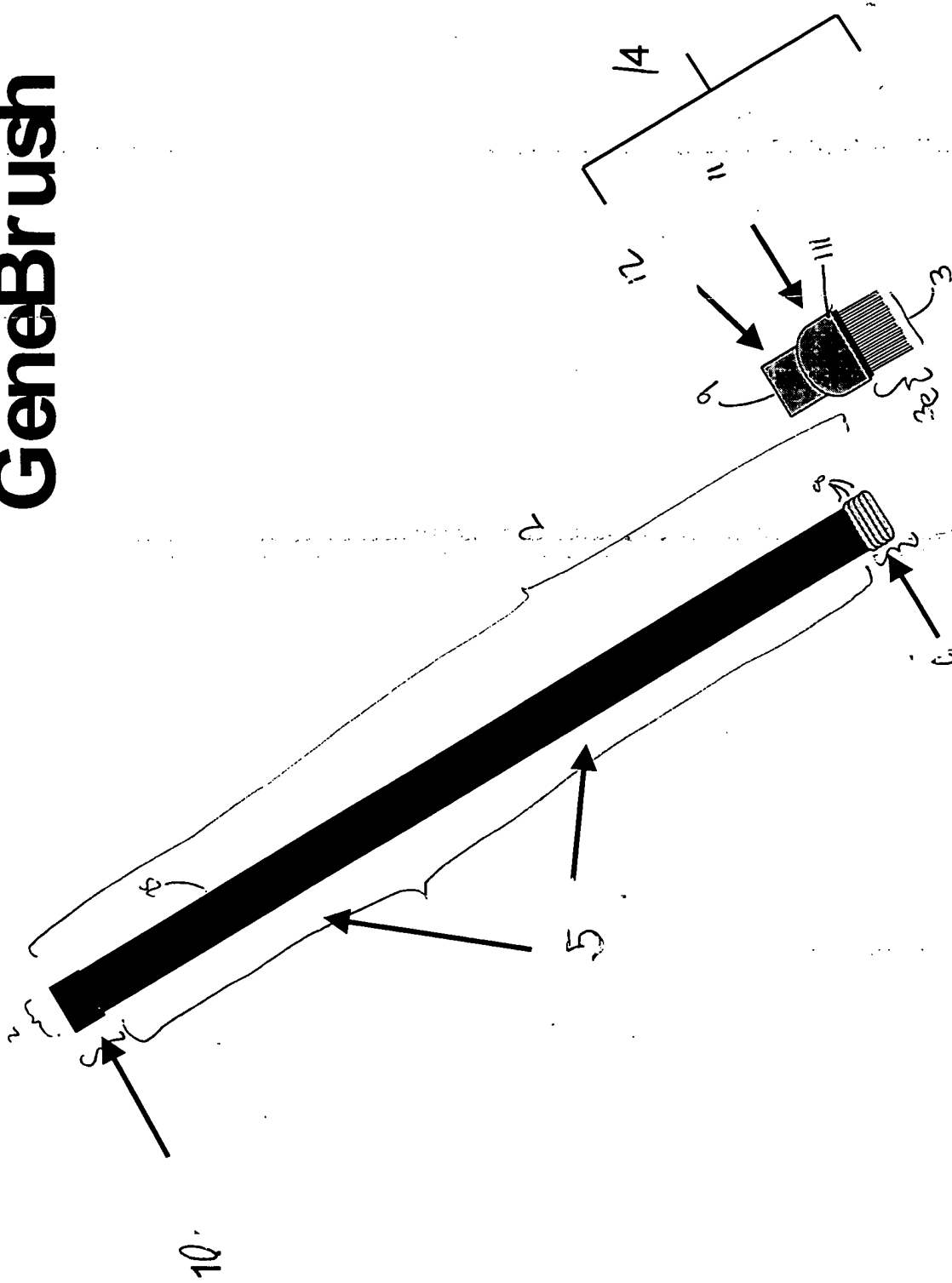


FIG. 2B

GeneBrush

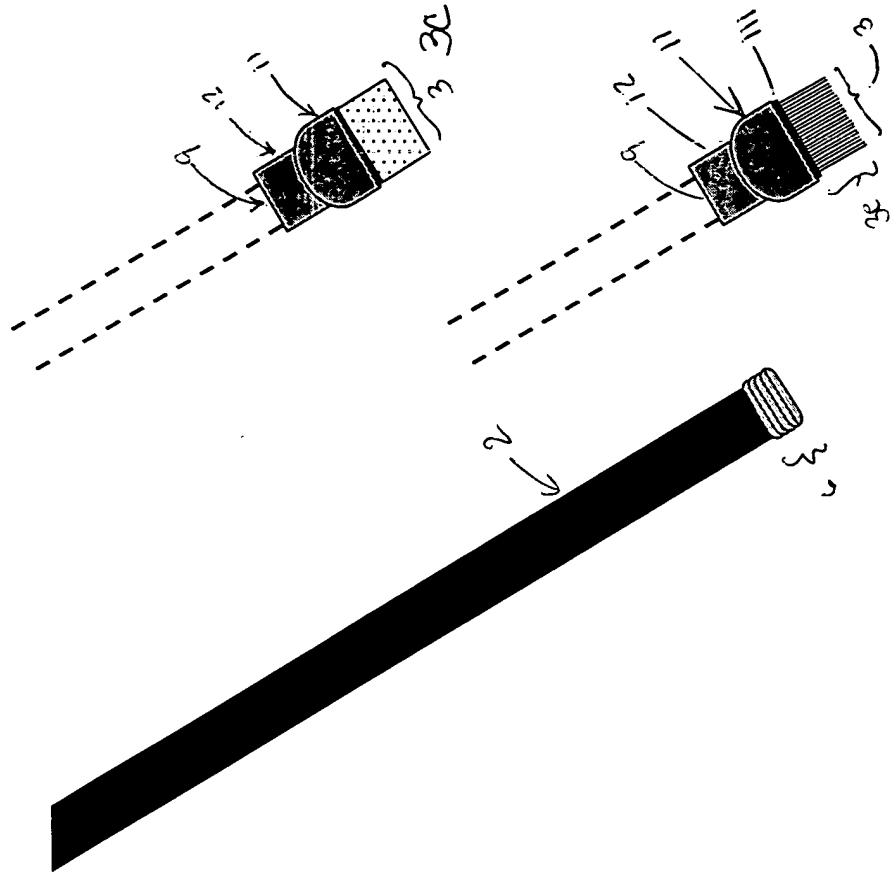


FIG. 3A

3B

GeneBrush

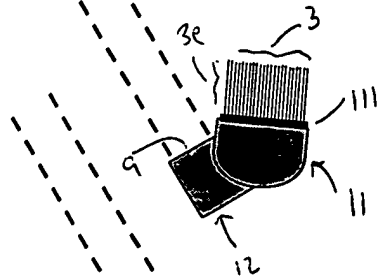


FIG.
3D

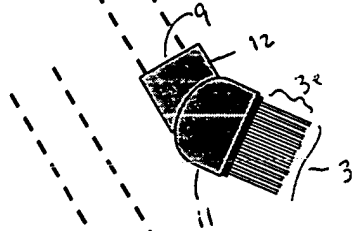


FIG.
3E

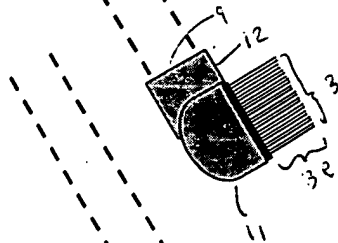


FIG.
3F

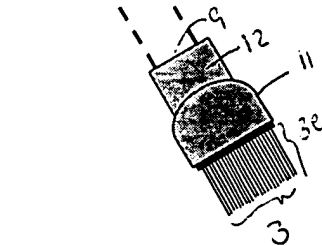


FIG.
3G

09723121.112700

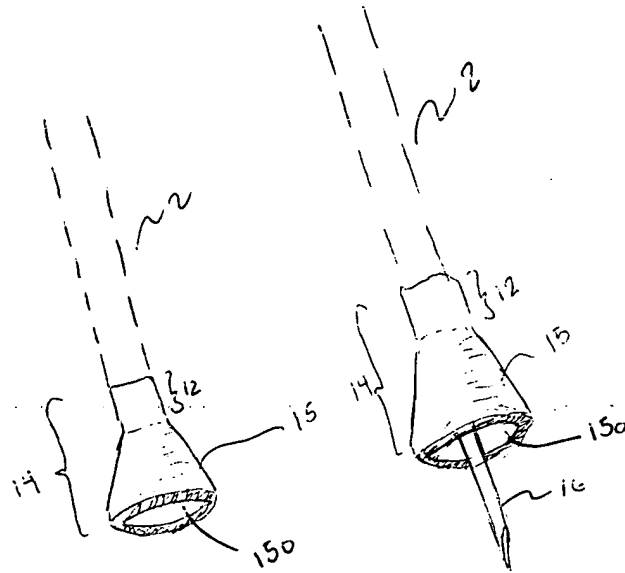
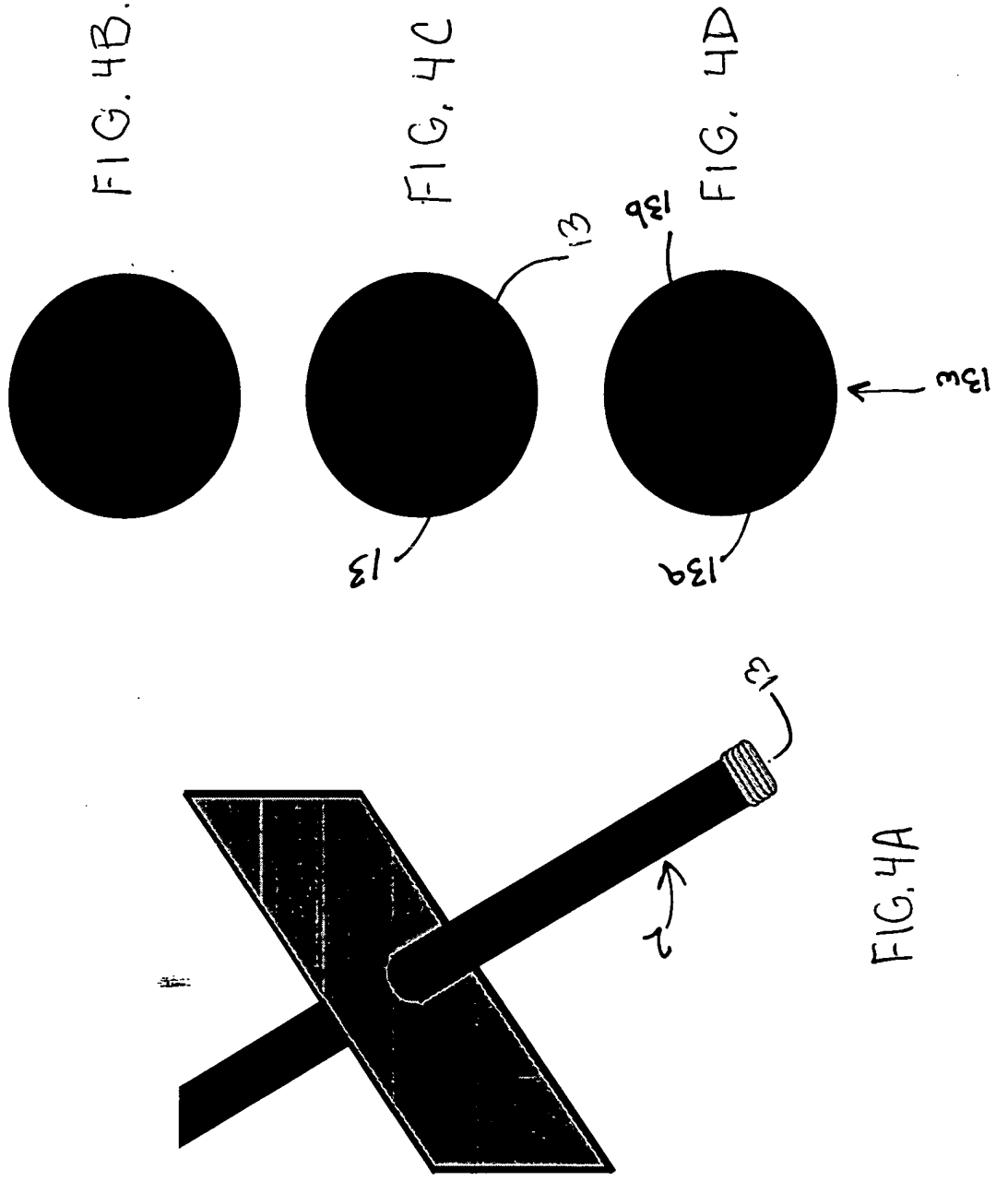


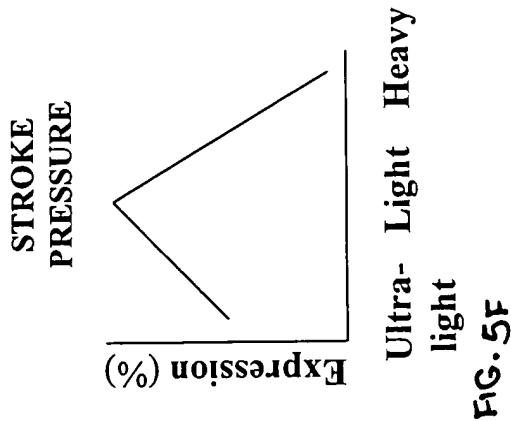
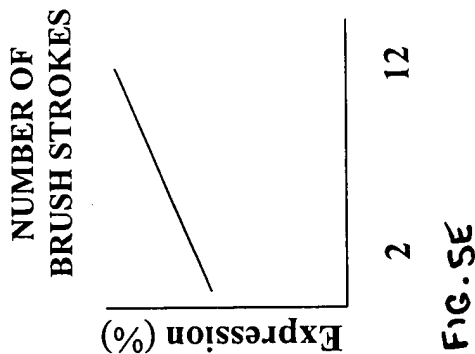
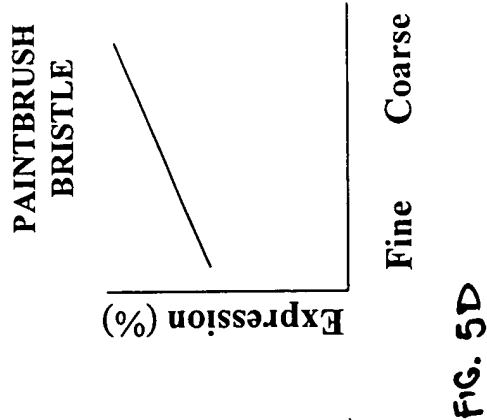
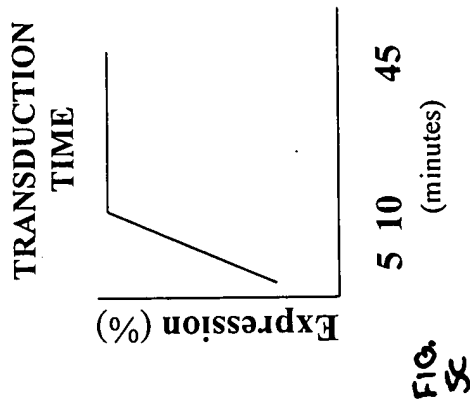
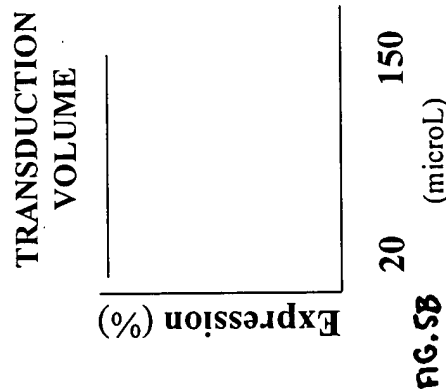
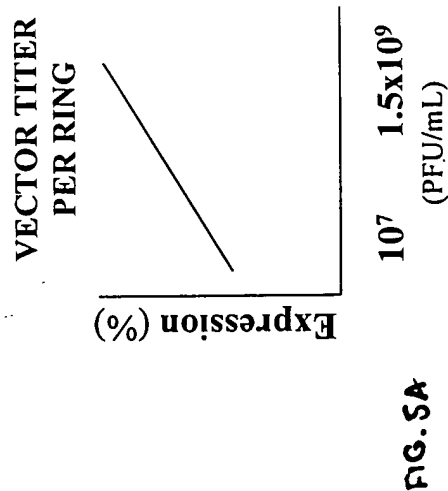
FIG. 3H

FIG. 3I

GeneBrush



DEMONSTRATION OF UTILITY



Effects of Brush Method on Expression of Recombinant β -Galactosidase in Canine Middle Cerebral Artery

Negative control; brushed

FIGURE 6A

AdLacZ; immersion method

FIGURE 6B

AdLacZ+6 mM CaP_i ; immersion

FIGURE 6C

AdLacZ+FG; brush method

FIGURE 6D

AdenOS (virus control); brushed

FIGURE 6E

Note the tremendous increase in blue staining when lacZ is brushed into the vessel wall

Effect of Adventitial Brushing With and Without Fibrin Glue on Expression of Recombinant β -Galactosidase in Canine Carotid Artery

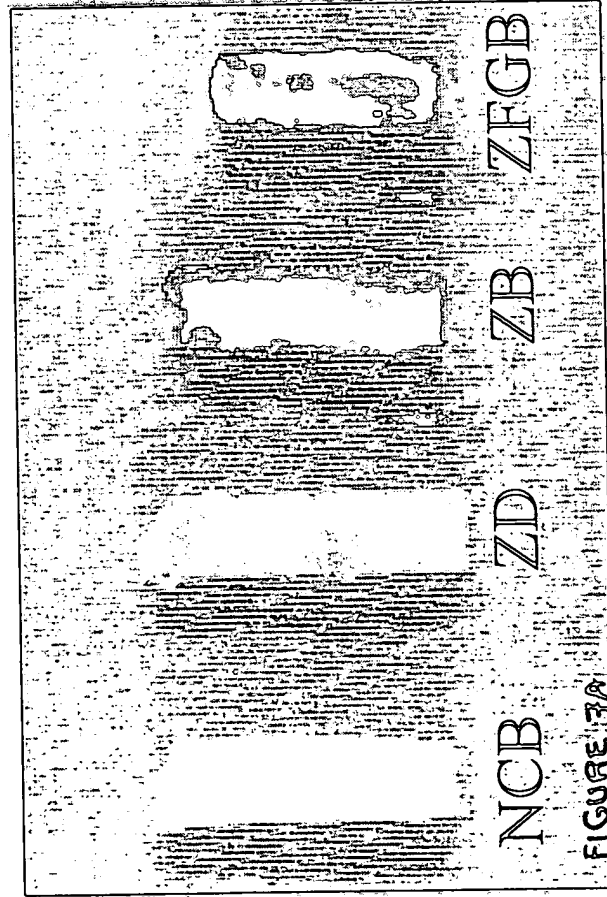


FIGURE 7A

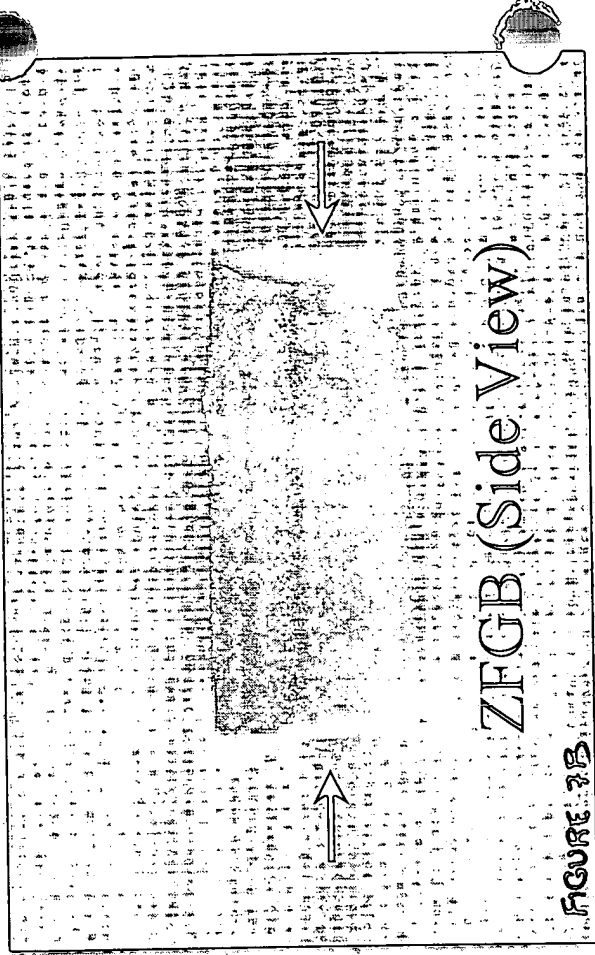


FIGURE 7B

NCB=negative control brushed; ZD=LacZ drops/immersion method;
ZB=LacZ brushed without FG; ZFGB=LacZ brushed with FG present; titer=10⁹ PFU/ring

*Note the tremendous increase in staining seen after brushing LacZ into artery wall;
The presence of fibrin glue localizes the vector linearly with the brush strokes (arrow heads)*

LUCIFERASE ASSAY

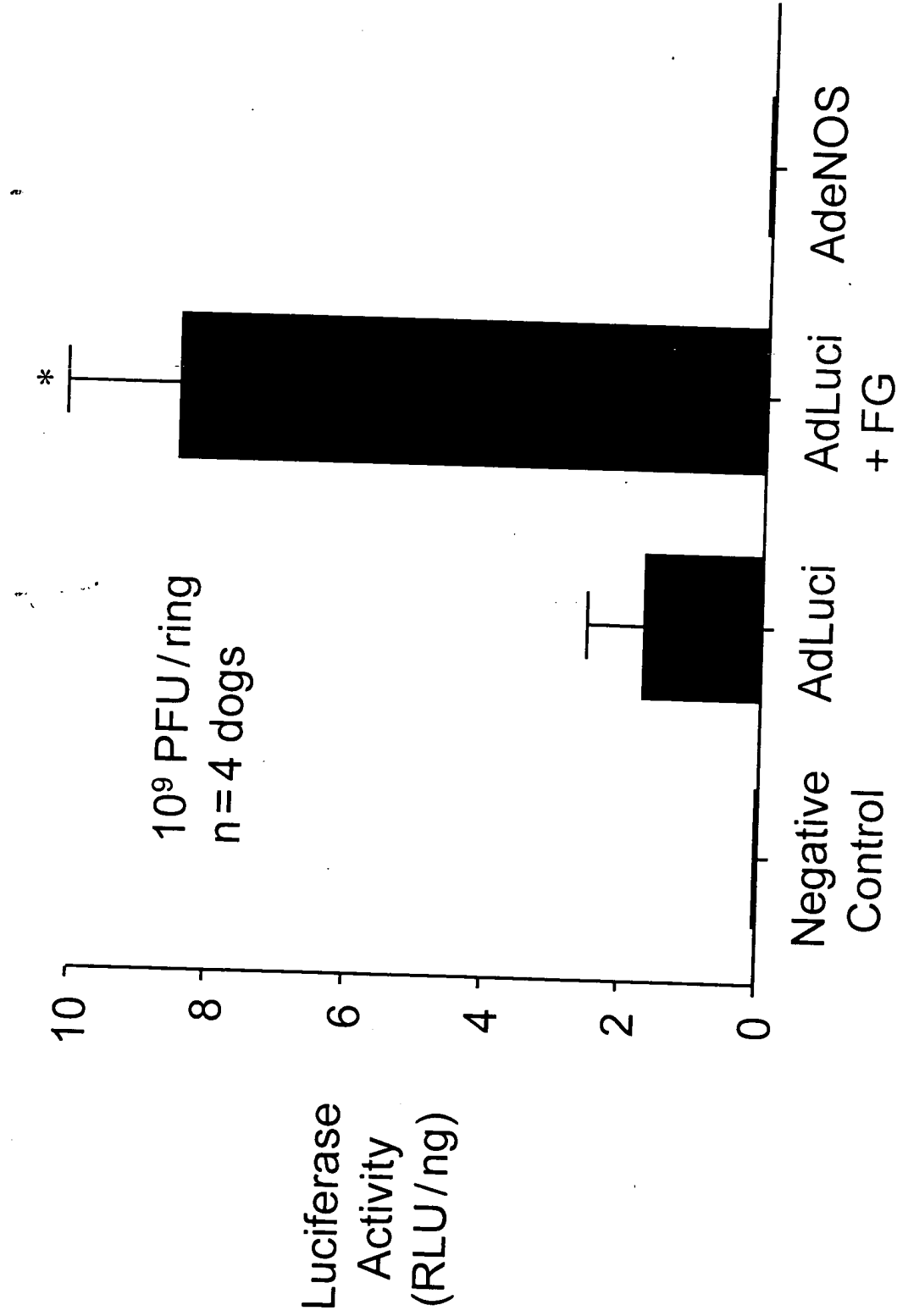
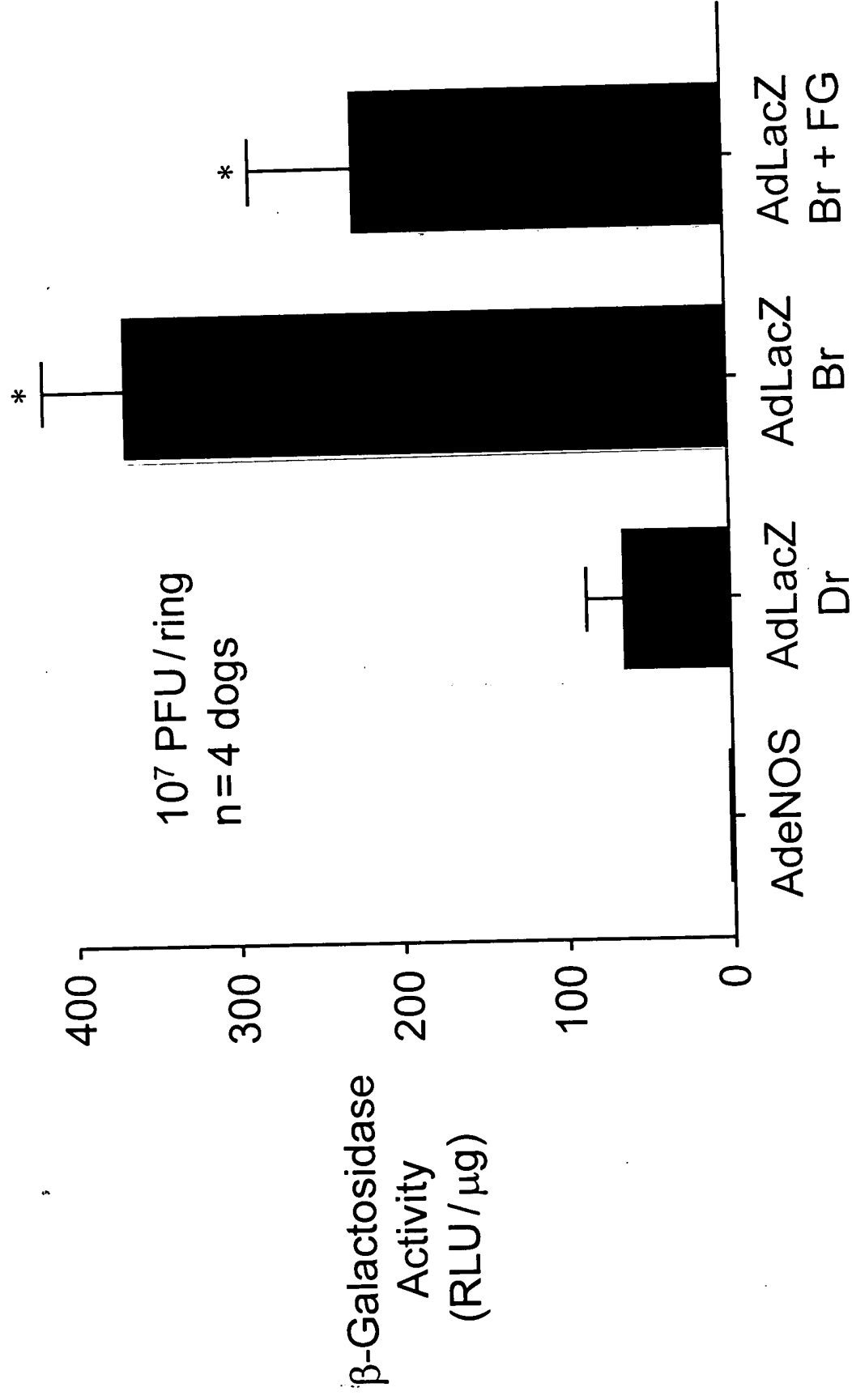


FIGURE 8A



F16.8B

VECTOR

DISEASE

PATIENT

Gene Therapy

**THERAPEUTIC
BENEFIT**

DELIVERY

TRANSDUCTION

FIGURE 9

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